AMENDMENTS TO THE CLAIMS

- 1. (currently amended) A reactive dye compound comprising:
 - (a) at least one chromophore moiety
 - (b) at least one SO₂C₂H₄ group which is attached to the chromophore moiety either directly via the sulphur atom of the SO₂C₂H₄ group or via a linking group L;

wherein at least one SO₂C₂H₄ group is substituted on its terminal carbon atom with at least one Y group wherein Y is -A(CO)R* wherein A is O or S and wherein R* is an organic residue which contains at least one nucleophilic group; or a salt thereof. [and salts thereof.]

- (currently amended) A reactive dye compound according to Claim 1 wherein R* is 2. selected from the group consisting of (CH2)_nSH, (CH2)_nNH2, CH(CH3)OH, CH(CH3)O(CO)CH(CH3)OH. derivatives of a polyester of citric $CH(OH)(CH_2COOH)_2$ CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH2COOH, CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, $(CH_2)nNH[R^1,]R_1$ $\text{CH}_2\text{N}[\text{R}^1\text{R}^2,]\underline{\text{R}}_1\underline{\text{R}}_2, \quad \text{CH}_2\text{NHNH}_2, \quad \text{CH}_2\text{NHOH,} \quad \text{CH}_2\text{SMe,} \quad \text{CHNH}_2(\text{CH}_2)_n(\text{COOH}),$ CHNH2CH2SMe, CHNH2CH2SSCH2CHNH2COOH, CHNH2CH2SO3H, C6H4OH, C6H4COOH, C6H4NH2, C6H4N, (CH2)nC6H4N, CH(R#)NH2, (CH2)n-SSO3, (CH2)_n-S-S-(CH₂)_n, peptides [and] or polypeptides,[;] wherein R₁ and R₂ is independently selected from C1-C4 alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain.
- (previously amended) A reactive dye according to claim 2 wherein R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, C6H₄N. CH(R#)NH₂, CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH, C(H)(CH₃)OH, C(H)(OH)CH₂COOH, CH₂COOH, CH₂C(H)(OH)COOH, CH₂COOH, CH₃C(H)(OH)COOH, C6H₄OH and C₆H₄NH₂.
- 4. (previously amended) A reactive dye compound according to claim 3 wherein R* is C(OH)(CH2COOH)2 or CH2C(OH)(COOH)CH2COOH.
- 5. (previously amended) A reactive dye compound according to claim 1 wherein A is O.

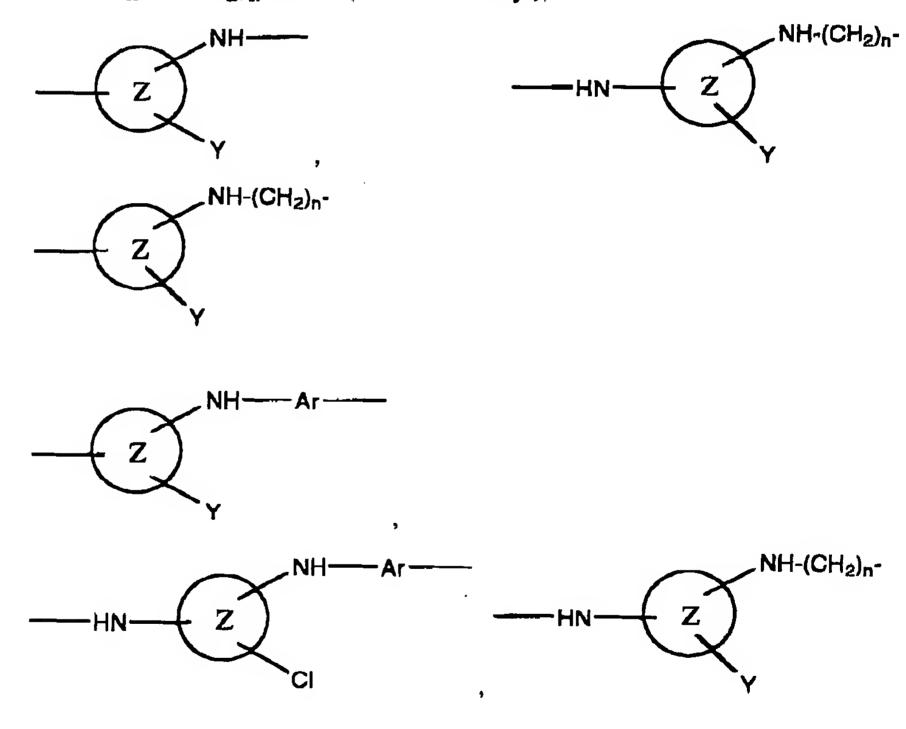
6. (currently amended) A reactive dye compound having the formula (I):

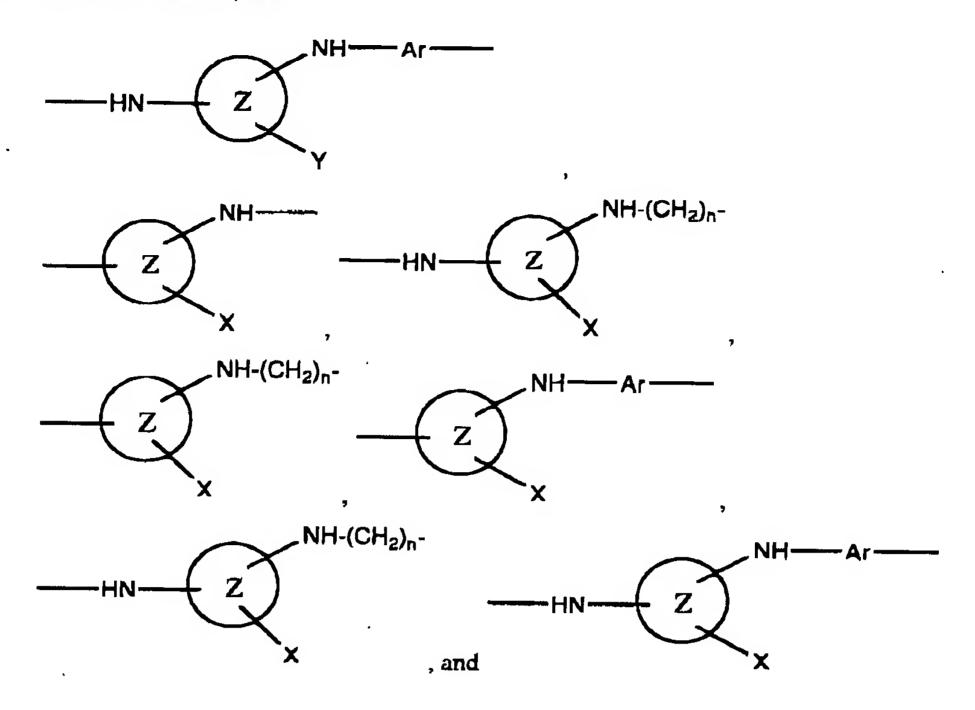
D—
$$(L)_r$$
— SO_2 — CH_2CH_2 — A — C — R *

wherein: D is a chromophore group;

r is 0 or 1;

L is a linking group selected from the group consisting of NH, $(CH_2)_{II}$, N- $(CH_2)_{II}$ N, $-(CH_2)_{II}$ N, NR (R is C1-C4 alkyl),





wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thioderivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (Q+);

A is O or S,

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂. CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, derivatives of a polyester of citric CH(OH)(CH2COOH)2, CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH2COOH, CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, $(CH_2)nNH[R^1,]R_1$ $CH_2N[R^1R^2,]R_1R_2$, CH_2NHNH_2 , CH_2NHOH , CH_2SMe , $CHNH_2(CH_2)_n(COOH)$, CHNH2CH2SMe, CHNH2CH2SSCH2CHNH2COOH, CHNH2CH2SO3H, C6H4OH, C₆H₄COOH, C₆H₄NH₂, C₆H₄N, (CH₂)_nC₆H₄N, CH(R#)NH₂, (CH₂)_n-SSO₃. (CH₂)_n-S-S-(CH₂)_n, peptide [and]or polypeptide [derivatives linked to the vinylsulphone group via their terminal carboxylic acid group;] wherein R1 and R2 is independently selected from C1-C4 alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

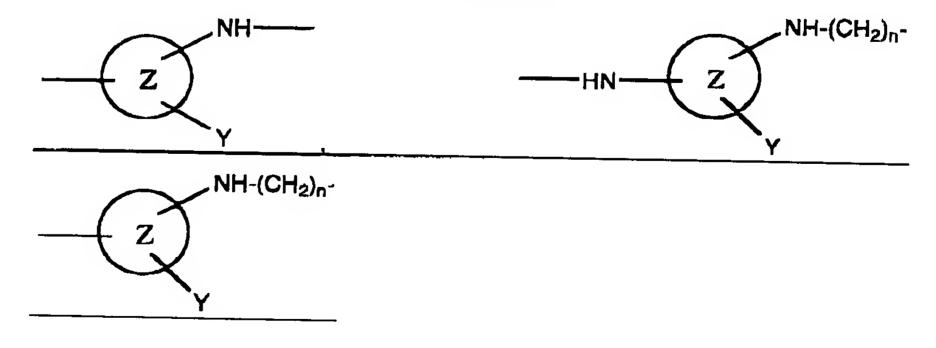
[and salts thereof.] or a salt thereof.

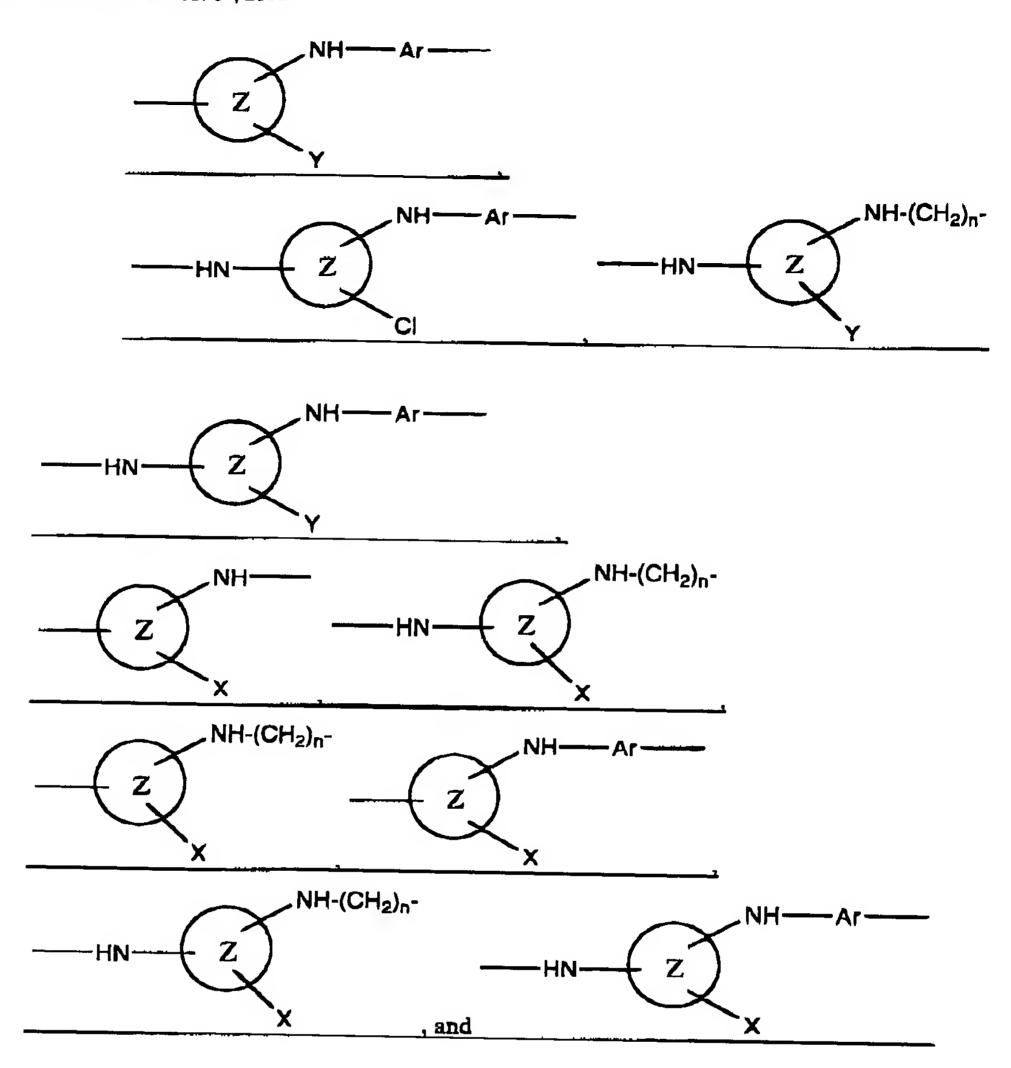
- 7. (previously amended) A reactive dye according to Claim 6 wherein R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, C₆H₄N, CH(R#)NH₂, CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH, C(H)(CH₃)OH, C(H)(OH)CH₂COOH, CH₂C(H)(OH)COOH, CH₂C(H)(OH)COOH, CH₂C(H)(OH)COOH, CH₃C(H)(OH)COOH, C6H₄OH and C₆H₄NH₂.
- 8. (currently amended) A reactive dye according to claim 6 wherein R* is selected from the group consisting of C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH and derivatives of a polyester of citric acid [polymer].
- 9. (previously amended) A reactive dye compound according to claim 6 wherein A is O.
- 10. (currently amended) A reactive dye compound having the structure:

wherein [D, L, r are as defined above.] D is a chromophore group;

<u>r is 0 or 1;</u>

L is a linking group selected from the group consisting of NH, (CH₂)_n, N-(CH₂)_nN, -(CH₂)_n-N, NR (R is C1-C4 alkyl).





wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thio-derivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (O+);

A is O or S,

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, CH(CH₃)OH, CH(CH₃)OH, derivatives of a polyester of citric acid, CH(OH)(CH₂COOH)₂, CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH₂COOH,

CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, (CH₂)nNHR₁, CH₂NR₁R₂, CH₂NHNH₂, CH₂NHOH, CH₂SMe, CHNH₂(CH₂)n(COOH), CHNH₂CH₂SMe, CHNH₂CH₂SSCH₂CHNH₂COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄COOH, CHNH₂CH₂SSCH₂CHNH₂COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄COOH, CH₂NH₂CGH₄NH₂, C₆H₄NH₂, (CH₂)n-S-S-(CH₂)n, peptide or polypeptide, wherein R₁ and R₂ is independently selected from C₁-C₄ alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

or a salt thereof.

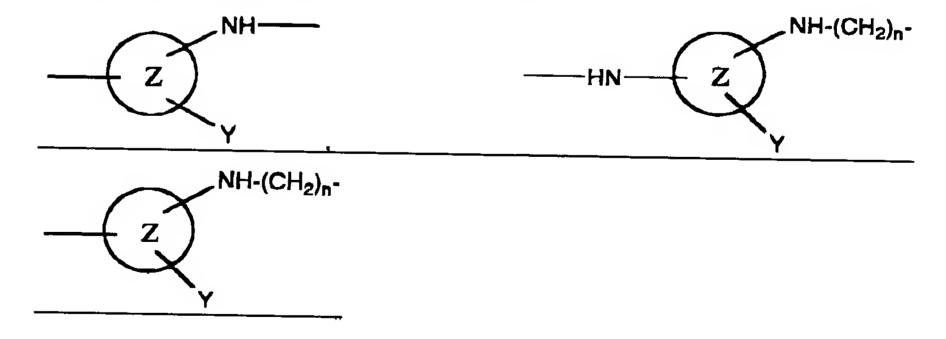
11. A reactive dye compound having the structure:

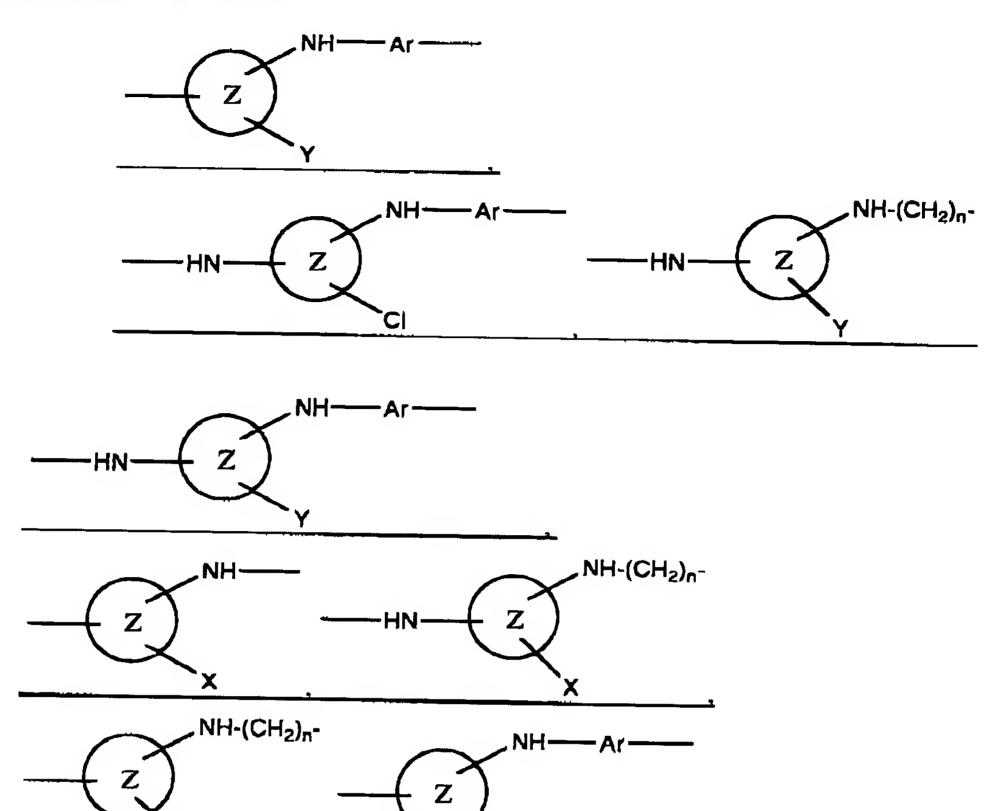
(Ib)

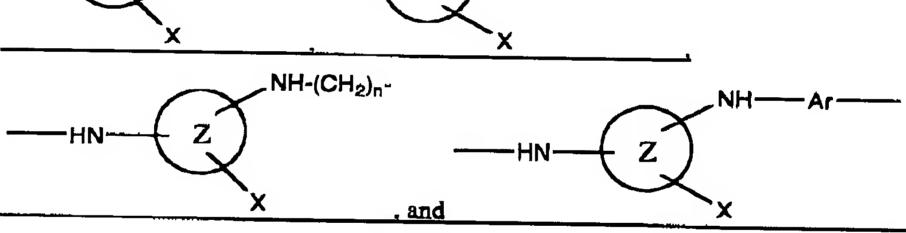
wherein [D, L and r are as defined above.] D is a chromophore group;

r is 0 or 1;

L is a linking group selected from the group consisting of NH, (CH₂)_n, N-(CH₂)_n, NR (R is C1-C4 alkyl),







wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thio-derivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (O+);

A is O or S,

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, derivatives of a polyester of citric acid, CH(OH)(CH₂COOH)₂, CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH₂COOH,

CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, (CH₂)nNHR₁, CH₂NR₁R₂, CH₂NHNH₂, CH₂NHOH, CH₂SMe, CHNH₂(CH₂)_n(COOH), CHNH₂CH₂SMe, CHNH₂CH₂SSCH₂CHNH₂COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄OH, CH(R#)NH₂, (CH₂)_n-SSO₃, (CH₂)_n-SS-(CH₂)_n, peptide or polypeptide, wherein R₁ and R₂ is independently selected from C₁-C₄ alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

or a salt thereof.

- 12. (previously amended) Method of using a compound according to claim 1 for dyeing cellulosic substrates.
- 13. (previously amended) Method of using a compound according to claim 1 for dyeing wool.
- 14. (previously amended) Method of using a compound according to claim I for dyeing polyamide substrates.
- 15. (previously amended) Method of using a compound according to claim 1 for dyeing silk.
- 16. (previously amended) Method of using a compound according to claim 1 for dyeing keratin.
- 17. (previously amended) Method of using a compound according to claim 1 for dyeing leather.
- 18. (previously amended) Process for the preparation of a compound according to claim 1 comprising the steps of reacting a first starting material with a second starting material, the first starting material comprising at least one chromophore, at least one SO₂C₂H₄ which is attached to the chromophore group either directly via the sulphur atom of the SO₂C₂H₄ group or via a linking group L, the second starting material comprising an oxyor thio-carbonyl group.
- 19. (currently amended) Process according to Claim 18 wherein the process is carried out at a pH of from about 2 to about 8.

- 20. (previously amended) Process according to Claim 18 or 19 wherein the second starting material is added to the first starting material slowly.
- 21. (previously amended) Product obtainable by a process according to claim 18.
- 22. (previously amended) A dye composition comprising the compound of claim 1.
- 23. (original) A dye composition according to Claim 22 wherein the composition is in the form of a solid mixture and further comprises an acid buffer.
- 24. (original) A dye composition according to Claim 22 wherein the composition is in the form of a liquid and further comprises water and an acid buffer.
- 25. (original) A dye composition according to Claim 22 wherein the composition is in the form of a paste and further comprises water, thickening agent and an acid buffer.
- 26. (previously amended) A dye composition according to claim 22 wherein the pH is from about 2 to about 3.